CLAIMS

1. A method for isolating a polynucleotide encoding an antibody against a lesional tissue, wherein the method comprises the steps of:

5   (a) isolating a lesional tissue-infiltrating B cell; and
       (b) obtaining a polynucleotide encoding an antibody from the isolated B cell.

2. The method of claim 1, wherein the lesional tissue is a cancer tissue.

10   3. The method of claim 1, wherein step (a) of isolating a lesional tissue-infiltrating B cell comprises the step of excising a region comprising a B cell from a section of said lesional tissue.

4. The method of claim 1, wherein step (b) of obtaining a polynucleotide encoding an antibody comprises the step of amplifying a gene encoding an antibody variable region.

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5. An antibody-encoding polynucleotide isolated by the method of claim 1.

6. The polynucleotide of claim 5, wherein the antibody-encoding polynucleotide comprises a polynucleotide encoding an antibody variable region.

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7. An expression vector comprising the polynucleotide of claim 5.

8. A host cell comprising the polynucleotide of claim 5 or the expression vector of claim 7.

25   9. A method for producing an antibody, wherein the method comprises the steps of:
       culturing the host cell of claim 8; and
       recovering an antibody which is the expression product.

10. An antibody produced by the method of claim 9.
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11. An antibody encoded by the polynucleotide of claim 5.

12. The antibody production method of claim 9, wherein the method further comprises the steps of:

35   (1) contacting the antibody obtained by the method of claim 9 with a lesional tissue;
       (2) detecting the binding between the antibody and the lesional tissue; and

(3) selecting an antibody that binds to the lesional tissue.